

Proceedings of the Iowa Academy of Science

Volume 66 | Annual Issue

Article 23

1959

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Recommended Citation

Cooperrider, Tom S. (1959) "New County Records for Marsh and Aquatic Tracheophytes in Iowa," *Proceedings of the Iowa Academy of Science*: Vol. 66: No. 1 , Article 23.
Available at: <https://scholarworks.uni.edu/pias/vol66/iss1/23>

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New County Records for Marsh and Aquatic Tracheophytes in Iowa¹

By TOM S. COOPERRIDER

Abstract. A list is presented of the 147 species of marsh and aquatic tracheophytes known from Clinton, Jackson and Jones counties, Iowa. Annotations indicate the 213 new county records found among the writer's recent collections.

This paper is primarily a list of the marsh and aquatic tracheophytes found in Clinton, Jackson, and Jones counties, Iowa, annotated to indicate new county records. The total number of species included is 147. All but two of these, *Nasturtium officinale* and *Potamogeton crispus*, are thought to be native to the area. Two of the new records are of species extremely rare in the Iowa flora. These are *Proserpinaca palustris*, known only from one other Iowa station in Muscatine County, and *Veronica scutellata*, of which the only other Iowa collection was made in Buchanan County in 1876.

In this area, most plants of these species are to be found in lakes, ponds, backwaters, and marshes in the floodplains and terraces of the Mississippi, Wapsipinicon, and Maquoketa rivers and their tributaries. Others inhabit the surface water and marsh land at Muskrat Slough (Jones County) and at Goose Lake (Clinton County). The former is apparently a depression in the Iowan glacial drift, the latter a low area in an old channel of the Mississippi River.

The collections, made by the writer from 1955-57 (Cooperrider, 1958), include many county records not represented by dots on the species maps in *Marsh and Aquatic Angiosperms of Iowa* (Beal and Monson, 1954). In the following list, these abbreviations identify the counties in which each species has been collected: Cl, Clinton; Ja, Jackson; and Jo, Jones. Italics are used to indicate new county records, *i.e.*, ones not shown on the species maps mentioned above, nor represented by specimens in the herbaria of the Davenport Public Museum, Iowa State College, or the State University of Iowa.

For the sake of completeness, a few species are included in addition to those listed by Beal and Monson (*op. cit.*). These are preceded by an asterisk and include the pteridophytes of these habitats and a few angiosperms found exclusively in marshes in this particular segment of the state. In these instances, italics indicate that the writer found no specimen of the species from that county in the

¹This is based on part of a doctoral dissertation (State University of Iowa, 1958). During the final year of this study, the writer's work was supported by a pre-doctoral fellowship awarded by the National Science Foundation.

herbaria named above, and assumes his own collection to be a new county record.

Specimens for all these new records are being added to the herbarium of the State University of Iowa.

I. PTERIDOPHYTES

ISOËTACEAE

**Isoëtes melanopoda* Gay & Dur. Cl

EQUISETACEAE

**Equisetum fluviatile* L. Cl

ASPIDACEAE

**Thelypteris palustris* Schott Cl, Jo

SALVINIACEAE

**Azolla mexicana* Presl. Ja.

II. MONOCOTYLEDONS

TYPHACEAE

Typha angustifolia L. Ja, Jo

Typha latifolia L. Cl, Ja, Jo

SPARGANIACEAE

Sparganium eurycarpum Engelm. Cl, Ja, Jo

POTAMOGETONACEAE

Potamogeton crispus L. Cl, Ja

Potamogeton diversifolius Raf. Cl

Potamogeton foliosus Raf. Cl, Ja

Potamogeton nodosus Poir. Ja, Jo

Potamogeton pectinatus L. Ja

ALISMACEAE

Alisma subcordatum Raf. Cl, Ja, Jo

Sagittaria engelmanniana J. G. Smith Ja, Jo

Sagittaria graminea Michx. Cl, Jo

Sagittaria latifolia Willd. Cl, Ja, Jo

Sagittaria montevidensis Cham. & Schlecht. Jo

Sagittaria rigida Pursh Cl, Jo

HYDROCHARITACEAE

Elodea canadensis Michx. Ja

Elodea nuttallii (Planch.) St. John Cl, Ja

GRAMINEAE

Alopecurus aequalis Sobol. Jo

Calamagrostis canadensis (Michx.) Beauv. Cl, Ja, Jo

Glyceria grandis S. Wats. Ja, Jo

Glyceria striata (Lam.) Hitchc. Cl, Ja, Jo

Leersia lenticularis Michx. Cl, Ja

Leersia oryzoides (L.) Sw. Cl, Ja, Jo

Phalaris arundinacea L. Cl, Ja, Jo

Spartina pectinata Link Cl, Ja, Jo

CYPERACEAE

- Carex atherodes* Spreng. Cl, Ja
 **Carex bebbii* Olney Cl, Ja
 **Carex cristatella* Britt. Ja
Carex crus-corvi Shuttlw. Cl
 **Carex frankii* Kunth Ja
 **Carex hystricina* Muhl. Cl, Ja
Carex interior Bailey Jo
 **Carex laevivaginata* (Kuk.) Mack. Cl
Carex lasiocarpa Ehrh. Cl
Carex rostrata Stokes Jo
 **Carex scoparia* Schkuhr Cl, Jo
 **Carex stipata* Muhl. Ja, Cl
 **Carex trichocarpa* Muhl. Ja, Jo
Carex vesicaria L. Jo
Eleocharis acicularis (L.) R. & S. Cl, Ja, Jo
Eleocharis calva Torr. Cl, Jo
Eleocharis compressa Sulliv. Cl, Jo
Eleocharis engelmannii Steud. Ja
Eleocharis obtusa (Willd.) Schultes Ja, Jo
Eleocharis palustris (L.) R. & S. Cl, Ja
Eriophorum angustifolium Honckeny Jo
Scirpus atrovirens Willd. Cl, Jo
Scirpus cyperinus (L.) Kunth Cl, Ja
Scirpus fluviatilis (Torr.) Gray Ja, Jo
Scirpus heterochaetus Chase Ja
Scirpus validus Vahl Cl, Ja, Jo

ARACEAE

- Acorus calamus* L. Cl, Ja, Jo

LEMNACEAE

- Lemna minor* L. Cl, Ja, Jo
Lemna trisulca L. Cl, Jo
Spirodela polyrhiza (L.) Schleid. Cl, Ja, Jo
Wolffia columbiana Karst Cl, Ja
Wolffia punctata Griseb. Cl

PONTEDERIACEAE

- Heteranthera dubia* (Jacq.) MacM. Cl, Ja
Pontederia cordata L. Cl, Jo

JUNCACEAE

- Juncus balticus* Willd. Ja
Juncus canadensis J. Gay Jo
Juncus dudleyi Wieg. Cl
Juncus torreyi Coville Cl

IRIDACEAE

- Iris virginica* L. Cl, Ja, Jo

III. DICOTYLEDONS

SALICACEAE

**Salix petiolaris* Sm. Jo

URTICACEAE

**Boehmeria cylindrica* (L.) Sw. Cl, Ja, Jo

**Pilea fontana* (Lunell) Rydb. Jo

POLYGONACEAE

Polygonum coccineum Muhl. Cl, Ja, Jo

Polygonum hydropiper L. Cl, Ja, Jo

Polygonum hydropiperoides Michx. Cl

Polygonum lapathifolium L. Cl, Ja, Jo

Polygonum punctatum Ell. Cl, Ja, Jo

Polygonum sagittatum L. Cl, Jo

Rumex orbiculatus Gray Jo

Rumex verticillatus L. Cl, Ja, Jo

CERATOPHYLLACEAE

Ceratophyllum demersum L. Cl, Ja, Jo

NYMPHAEACEAE

Nelumbo lutea (Willd.) Pers. Cl, Ja

Nuphar luteum (L.) Sibth. & Sm.

(incl. *N. advena* (Ait.) Ait. f.) Cl

Nymphaea tuberosa Paine Cl, Ja

RANUNCULACEAE

Caltha palustris L. Cl, Jo

Myosurus minimus L. Cl, Jo

Ranunculus flabellaris Raf. Cl, Jo

Ranunculus pensylvanicus L. f. Cl, Ja, Jo

Ranunculus sceleratus L. Ja, Jo

CRUCIFERAE

Cardamine bulbosa (Schreb.) BSP. Cl, Jo

Nasturtium officinale R. Br. Cl, Ja, Jo

Rorippa islandica (Oeder) Borbas Cl, Ja, Jo

SAXIFRAGACEAE

Penthorum sedoides L. Cl, Ja, Jo

ROSACEAE

**Geum aleppicum* Jacq. Cl

Potentilla palustris (L.) Scop. Jo

BALSAMINACEAE

Impatiens biflora Walt.

(? *I. capensis* Meerb.) Cl, Ja, Jo

MALVACEAE

Hibiscus militaris Cav. Cl, Ja

GUTTIFERAE

**Hypericum virginicum* L. Jo

VIOLACEAE

Viola lanceolata* L. JoViola macloskeyi* F. E. Lloydsubsp. *pallens* (Banks) M.S. Baker Jo**Viola nephrophylla* Greene Cl, Jo

LYTHRACEAE

Ammannia coccinea Rottb. Cl, Ja*Lythrum dactyanum* Nieuwl.(L. *alatum* of authors, not Pursh) Cl, Ja, Jo*Peplis diandra* Nutt. Cl*Rotala ramosior* (L.) Koehne Jo

ONAGRACEAE

Epilobium coloratum Biehler Cl, Ja, Jo*Epilobium leptophyllum* Raf. Jo*Ludwigia alternifolia* L. Cl, Jo*Ludwigia palustris* (L.) Ell. Jo*Ludwigia polycarpa* Short & Peter Cl, Jo

HALORAGIDACEAE

Prosperpinaca palustris L. Cl

UMBELLIFERAE

Cicuta maculata L. Cl, Ja, Jo**Oxypolis rigidior* (L.) Raf. Cl, Jo*Sium suave* Walt. Cl, Ja

PRIMULACEAE

Lysimachia hybrida Michx. Cl, Ja, Jo*Lysimachia quadriflora* Sims Cl, Jo*Lysimachia terrestris* (L.) BSP. Ja, Jo*Lysimachia thyrsoflora* L. Jo

GENTIANACEAE

**Gentiana crinita* Froel. Cl, Jo

ASCLEPIADACEAE

Asclepias incarnata L. Cl, Ja, Jo

VERBENACEAE

Lippia lanceolata Michx. Cl, Ja, Jo

LABIATAE

Lycopus americanus Muhl. Cl, Ja*Lycopus asper* Greene Ja*Lycopus uniflorus* Michx. Jo*Lycopus virginicus* L. Cl, Ja*Mentha arvensis* L. Cl, Ja, Jo*Physostegia parviflora* Nutt. Cl, Ja, Jo*Scutellaria epilobiifolia* A. Hamilton Cl, Jo*Scutellaria lateriflora* L. Cl, Ja, Jo*Teucrium canadense* L.(incl. *T. occidentale* Gray) Cl, Ja, Jo

SCROPHULARIACEAE

Chelone glabra L. Cl, Jo

Gerardia purpurea L.

(incl. *G. paupercula* (Gray) Britt.) Cl, Ja

Gratiola neglecta Torr. Jo

Lindernia dubia (L.) Pennell

(incl. *L. anagallidea* (Michx.) Pennell) Cl, Ja, Jo

Mimulus ringens L. Cl, Ja, Jo

Pedicularis lanceolata Michx. Cl, Jo

Veronica anagallis-aquatica L. Cl

Veronica scutellata L. Cl

RUBIACEAE

**Galium tinctorium* L. Cl, Ja, Jo

CAMPANULACEAE

Campanula aparinoides Pursh Cl, Jo

COMPOSITAE

Aster puniceus L.

(incl. *A. lucidulus* (Gray) Wieg.) Jo

Aster umbellatus Mill. Cl, Jo

Bidens cernua L. Cl, Ja, Jo

**Bidens coronata* (L.) Britt. Cl, Jo

Bidens frondosa L. Cl, Ja

Boltonia asteroides (L.) L'Her. Cl, Ja, Jo

**Cirsium muticum* Michx. Cl

Eupatorium perfoliatum L. Cl, Ja, Jo

**Eupatorium maculatum* L. Jo

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